

Notice of Allowability

Application No.

09/213,748

Examiner

Chante Harrison

Applicant(s)

CALLWAY ET AL.

Art Unit

2628

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Board Decision 5/2/07.
2. ☒ The allowed claim(s) is/are 18,29 and 31-37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☒ Examiner's Amendment/Comment
- ☐ Examiner's Statement of Reasons for Allowance
- ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

(Currently Amended) Claim 18. A video graphics display engine comprising:
a video scaler adapted to receive a video data stream in a first format, wherein the video scaler scales video images in the video data stream based on a ratio between the video images in the first format and an output video image to produce a scaled video stream;
a graphics scaler adapted to receive a graphics data stream in a second format, wherein the graphics scaler scales graphics images in the graphics data stream based on a ratio between the graphics images in the second format and an output graphics image to produce a scaled graphics stream;
a merging block operably coupled to the video scaler and the graphics scaler, wherein the merging block combines the scaled video stream and the scaled graphics stream to produce a video graphics output stream; and
a single frame buffer operably coupled to the graphics scaler and to the video scaler, the single frame buffer further comprises a first memory block and a second memory

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block, wherein the stream of video data is fetched from the first memory block and the stream of graphics data is fetched from the second memory block; and a graphics decompression block operably coupled to the graphics scaler, wherein the graphics decompression block receives a compressed stream of graphics data and decompresses the compressed stream of graphics data to produce the graphics data stream.

(Currently Amended) Claim 29. A method for displaying video graphics data comprising:

receiving a video data stream, wherein the video data stream includes video data in a first format;

allocating a first block of a memory in a frame buffer for storing the video data stream, the allocating based upon memory needs of the video data stream;

receiving a graphics data stream, wherein the graphics data stream includes graphics data in a second format;

allocating a second block of the memory in a frame buffer for storing the graphics data stream, the allocating based upon memory needs of the graphics data stream;

scaling the video data based on a ratio between the first format and a selected video format to produce a scaled video stream;

scaling the graphics data based on a ratio between the second format and a selected graphics format to produce a scaled graphics stream; and

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merging the scaled video stream and the scaled graphics stream to produce a video graphics output stream, wherein receiving the graphics data stream further comprises receiving the graphics data stream in a compressed format, wherein the graphics data stream is decompressed prior to scaling.

Allowable Subject Matter

2. Claims 18, 29 and 31-37 are allowed.

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Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chante Harrison whose telephone number is 571-272-7659. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chante Harrison
Examiner
Art Unit 2628

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June 12, 2007



KEE M. TUNG
SUPERVISORY PATENT EXAMINER